



CLEAN VERSION

IN THE CLAIMS

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Please substitute claims 1, 3, 5, 10, 13, and 22 for the corresponding pending claim(s) with the same number(s) as follows:

1. (Amended) A display scanner for reading a barcode comprising:
an optical panel including a plurality of stacked parallel optical waveguides defining an inlet face at one end and a screen at an opposite end, and each of said waveguides has a core laminated between cladding;
a projector optically aligned with said inlet face for projecting a scan beam of light into said panel for transmission from said screen as a scan line to scan said barcode;
a light sensor disposed in optical communication with said inlet face for detecting a return beam reflected from said barcode into said screen; and
a decoder operatively joined with said sensor for decoding said return beam detected by said sensor to read said barcode.

3. (Amended) A display scanner for reading a barcode comprising:
an optical panel including a plurality of stacked optical waveguides defining an inlet face at one end and a screen at an opposite end, and each of said waveguides has a core laminated between cladding;
a projector optically aligned with said inlet face for projecting a scan beam of light into said panel for transmission from said screen as a scan line to scan said barcode, wherein said projector further comprises a pattern generator for defining a plurality of said scan lines with different orientations in a collective pattern at said screen for reading different orientations of

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said barcode, and wherein said projector comprises a video display projector configured to display said pattern as a video image thereof;

a light sensor disposed in optical communication with said inlet face for detecting a return beam reflected from said barcode into said screen; and

a decoder operatively joined with said sensor for decoding said return beam detected by said sensor to read said barcode.

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5. (Amended) A scanner according to claim 2 further comprising a light coupler disposed on said screen for transmitting said scan lines outwardly therefrom.

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10. (Amended) A scanner according to claim 1 wherein said sensor comprises a photodiode adjoining said inlet face.

13. (Amended) A display scanner for reading a barcode comprising:
an optical panel including a plurality of stacked optical waveguides defining an inlet face at one end and a screen at an opposite end, and each of said waveguides has a core laminated between cladding;

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a projector optically aligned with said inlet face for projecting a scan beam of light into said panel for transmission from said screen as a scan line to scan said barcode, wherein said projector further comprises a pattern generator for defining a plurality of said scan lines with different orientations in a collective pattern at said screen for reading different orientations of said barcode, and wherein said projector is configured for projecting into said panel both said scan beam and a video beam, with said scan beam forming said scan line pattern at said screen, and said video beam forming a visual display image;

a light sensor disposed in optical communication with said inlet face for detecting a return beam reflected from said barcode into said screen; and

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Amended

a decoder operatively joined with said sensor for decoding said return beam

detected by said sensor to read said barcode.

22. (Amended) A scanner according to claim 17 wherein said scan beam projector is
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configured for transmitting an infrared scan beam, and said video projector is configured for
transmitting a visible video beam.
